

**01** The tables Album and Band form a relational database set up for a second hand record shop. the owner can search the database to find albums suitable for a client.

### Album

AlbumName	AlbumID	Band	Format	Price
Open Season	001	BSP	Vinyl	12.00
Tigermilk	002	B&S	Vinyl	35.50
Sea of Brass	003	BSP	CD	8.00
Good Arrows	004	TUN	CD	15.99
Sweden	005	TMG	Vinyl	21.99
Storytelling	006	B&S	CD	10.99
The Life Pursuit	007	B&S	Vinyl	12.00

### Band

BandID	BandName	Genre
BSP	British Sea Power	Rock
B&S	Belle and Sebastian	Indie
TMG	The Mountain Goats	Indie
TUN	Tunng	Folk

**01.** Identify the primary key in the table **Band**. Explain why this is the best field to use as a primary key.

[2 marks]

BandID [1 mark] – this is unique (could be two bands with the same name) [1] shorter to include as foreign key in Album table [1]

**01.1** The album "Storytelling" has been sold. Write an SQL query that could be used to remove this album from the database.

[2 marks]

DELETE FROM Album

WHERE AlbumID = "006"; (accept AlbumName = "Storytelling")

**01.2** The price of the album "Good Arrows" by the band "Tunng" has been decreased to 11.99. Write an SQL query that could be used to change the price for this album.

[3 marks]

UPDATE Album

SET Price = 11.99

WHERE AlbumID = "004"; (accept AlbumName = "Good Arrows")

**01.3** A second version of the album "Sweden" by the band "The Mountain Goats" has been added to the stock of the second hand record shop. This album is on "Vinyl" format and will cost 15.00 to buy. Write an SQL query that could be used to add this album to the database. You should use a suitable code for the AlbumID field.

**[3 marks]**

```
INSERT INTO Album  
VALUES = "Sweden", "008", "TMG", "Vinyl", 15.00;
```

for the AlbumID accept any value that's not already in the table – this is the extra mark

**01.4** A customer has asked for a list of all the albums by bands of the "Indie" genre that are available on the "Vinyl" format in stock. The list needs to include the name of the band, the name of the album and the price it will be sold for.  
Write an SQL query that could be used to find this information. The results should be sorted by price with the most expensive first.

**[6 marks]**

```
SELECT Band.BandName, Album.AlbumName, Album.Price  
FROM Band, Album  
WHERE Album.Format = "Vinyl" AND Band.Genre = "Indie" AND Band.BandID = Album.Band  
ORDER BY Price DESC;
```